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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,329	07/14/2005	Mikihiko Kimura	SHM-16129	1267
40854 7590 10/14/2008 RANKIN, HILL & CLARK LLP			EXAMINER	
38210 Glenn A	venue	LIU, XUE H		
WILLOUGHBY, OH 44094-7808			ART UNIT	PAPER NUMBER
			1791	
			MAIL DATE	DELIVERY MODE
			10/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/540,329	KIMURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	XUE LIU	1791				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 14 Ju	ılv 2005					
· <u> </u>	· · · · · · · · · · · · · · · · · · ·					
<i>i</i>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
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5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	7) Claim(s) is/are objected to.					
8)⊠ Claim(s) <u>1-10</u> are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/13/07, 6/21/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, drawn to an injection-molding method for covering a plate-shaped member having a through hole extending from a front face to a rear face with a molded layer by injection-molding involving a step of molding a molded layer to the front face and rear face of the plate-shaped member through a gate on a first die.

Group II, claim(s) 2-3, 8-9, drawn to an injection-molding apparatus for covering a plate-shaped member with a molded layer, comprising a first die, a second die, a third die, and means for moving the second and third dies, wherein the first die includes a gate for injecting molding material into the front side cavity and the rear side cavity.

Group III, claim(s) 4, drawn to an injection-molding method for covering a front face and a rear face of a plate-shaped member with a molded layer by injection-molding involving a step of injecting a molding material through a gate on the first die into the front side cavity.

Group IV, claim(s) 5, drawn to an injection-molding apparatus for covering a plate-shaped member with a molded layer, comprising a first die, a second die, a third die, and control means, wherein the first die has a gate communicating with the front side cavity.

Group V, claim(s) 6, drawn to an injection-molding method for covering a front face and a rear face of a plate-shaped member with a molded layer by injection molding, involving a step of injecting a molding material through a gate on a first die into the front side cavity to mold a front side molded layer.

Group VI, claim(s) 7 and 10, drawn to an injection-molding apparatus for covering a plate-shaped member with a molded layer, comprising a first die, a second die, a third die and means for moving the second an third dies, wherein the first die includes a gate facing the front side cavity.

2. The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the common technical feature in all groups is injection-molding a molded layer to the front face of a plate-shaped member by injecting molding material into the front side cavity through a gate on the first die. This element cannot be a special technical feature under PCT Rule 13.2 because the element is shown in the prior art. Japanese Paten Laid-Open Publication No. 11-309746 (JP-A-11-309746) teaches a method for prodding a silicon resin-metal composite on both sides of which silicon resin layers are formed by injecting molten silicon resin into the cavity between a fixed die and a moving die through a gate on the fixed die.

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3. A telephone call was made to David E. Spaw on 10/2/08 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to XUE LIU whose telephone number is (571)270-5522. The examiner can normally be reached on Monday to Friday 9:30 - 6:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Phillip Tucker can be reached on (571)272-1095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/X. L./ Examiner, Art Unit 1791

/Philip C Tucker/ Supervisory Patent Examiner, Art Unit 1791